SEQUENCE LISTING

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<150> US 60/532,362
<151> 2003-12-23
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Arg Arg His Gly Arg Thr His
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 Tyr Glu Cys His Asp Cys Gly Lys Ser Phe Arg Gln Ser Thr His Leu
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Tyr Glu Cys Asn Tyr Cys Gly Lys Thr Phe Ser Val Ser Ser Thr Leu
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Tyr Glu Cys Asp His Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu
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Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Val Ser Ser Asn Leu
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Asn Val His Arg Arg lle His
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Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Thr Gln Ser Ser Asn Leu
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 Thr Lys His Lys Lys Ile His
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Tyr Glu Cys Asp His Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu
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Asn Val His Lys Arg Thr His
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lle Arg His Gln Arg Thr His
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 Tyr Arg Cys Glu Glu Cys Gly Lys Ala Phe Arg Trp Pro Ser Asn Leu
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 Thr Arg His Lys Arg Ile His
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 Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Val Ser Ser Asn Leu
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 Thr Arg His Arg Arg Ile His
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 Tyr Lys Cys Met Glu Cys Gly Lys Ala Phe Asn Arg Arg Ser His Leu
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  Thr Arg His Arg Arg Ile His
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Ala Arg His Lys Arg Thr His
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Phe Gln Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu
Lys Thr His Thr Arg Thr His
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Asn Val His Lys Arg Thr His
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 Tyr Glu Cys His Asp Cys Gly Lys Ser Phe Arg Gln Ser Thr His Leu
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 1 5
 Thr Arg His Arg Arg Ile His
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 Tyr Glu Cys His Asp Cys Gly Lys Ser Phe Arg Gln Ser Thr His Leu
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               5
Thr Arg His Gln Arg IIe His
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Tyr Glu Cys His Asp Cys Gly Lys Ser Phe Arg Gln Ser Thr His Leu
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Thr Arg His Arg Arg Ile His
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Tyr Glu Cys Asp His Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu
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 Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Val Ser Ser Asn Leu
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 Asn Val His Arg Arg 11e His
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Phe Glu Cys Lys Asp Cys Gly Lys Ala Phe lle Gln Lys Ser Asn Leu
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He Arg His Gln Arg Thr His
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Tyr Lys Cys Lys Gin Cys Giy Lys Ala Phe Giy Cys Pro Ser Asn Leu
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1
Arg Arg His Gly Arg Thr His
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Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Val Ser Ser Asn Leu
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Asn Val His Arg Arg Ile His
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Tyr Glu Cys His Asp Cys Gly Lys Ser Phe Arg Gln Ser Thr His Leu
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Thr Arg His Arg Arg Ile His
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 He Arg His Gln Arg Thr His
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Phe Gln Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu
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1
Lys Thr His Thr Arg Thr His
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Tyr Glu Cys Asp His Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu
                5
                                    10
Asn Val His Lys Arg Thr His
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Tyr Glu Cys His Asp Cys Gly Lys Ser Phe Arg Gln Ser Thr His Leu
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Thr Arg His Arg Arg Ile His
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 lle Arg His Gln Arg Thr His
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 Phe Gln Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu
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 Lys Thr His Thr Arg Thr His
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<210> 42

<211> 23

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<213> Homo sapiens

<400> 42

Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Thr Gln Ser Ser Asn Leu
1 5 10 15

Thr Lys His Lys Lys Ile His 20

<210> 43

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<213> Homo sapiens

<400> 43

Tyr Glu Cys His Asp Cys Gly Lys Ser Phe Arg Gln Ser Thr His Leu 1 5 10 15

Thr Arg His Arg Arg He His 20

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<211> 80

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<223> Synthetically generated peptide

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Thr Arg His Gln Arg IIe His Thr Gly Glu Lys Pro Phe Lys Cys Pro 20 25 30

Val Cys Gly Lys Ala Phe Arg His Ser Ser Ser Leu Val Arg His Gln
35 40 45

Arg Thr His Thr Gly Glu Lys Pro Tyr Arg Cys Lys Tyr Cys Asp Arg 50 55 60

Ser Phe Ser Ile Ser Ser Asn Leu Gln Arg His Val Arg Asn Ile His 65 70 75 80

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Lys Gln His Thr Arg IIe His Thr Gly Glu Lys Pro Tyr Lys Cys Lys 20
Gln Cys Gly Lys Ala Phe Gly Cys Pro Ser Asn Leu Arg Arg His Gly 40
Arg Thr His Thr Gly Glu Lys Pro Tyr Arg Cys Lys Tyr Cys Asp Arg 50
Ser Phe Ser IIe Ser Ser Asn Leu Gln Arg His Val Arg Asn IIe His 65
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<210> 46

<211> 108

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<213> Artificial Sequence

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<223> Synthetically generated peptide

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Tyr Arg Cys Lys Tyr Cys Asp Arg Ser Phe Ser IIe Ser Ser Asn Leu 1 5 10 15

GIn Arg His Val Arg Asn IIe His Thr Gly Glu Lys Pro Phe Gln Cys 20 25 30

Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His

Thr Arg Thr His Thr Gly Glu Lys Pro Tyr Glu Cys His Asp Cys Gly 50 55 60

Lys Ser Phe Arg Gln Ser Thr His Leu Thr Arg His Arg Arg Ile His 65 70 75 80

Thr Gly Glu Lys Pro Tyr Glu Cys Asn Tyr Cys Gly Lys Thr Phe Ser 85 90 95

Val Ser Ser Thr Leu IIe Arg His Gln Arg IIe His 100 105

<210> 47

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<400> 47

Tyr Glu Cys Asp His Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu 1 5 10 15

Asn Val His Lys Arg Thr His Thr Gly Glu Lys Pro Tyr Glu Cys Asp 20 25 30

His Cys Gly Lys Ala Phe Ser Val Ser Ser Asn Leu Asn Val His Arg 35 40 45

Arg IIe His Thr Gly Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys

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50
                        55
Ala Phe Thr Gin Ser Ser Asn Leu Thr Lys His Lys Lys lle His Thr
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Gly Glu Lys Pro Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Thr Gln
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               85
Ser Ser Asn Leu Thr Lys His Lys Lys Ile His
<210> 48
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Lys Thr His Thr Arg Thr His Thr Gly Glu Lys Pro Tyr Glu Cys Asp
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His Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu Asn Val His Lys
                            40
Arg Thr His Thr Gly Glu Lys Pro Tyr Glu Cys His Asp Cys Gly Lys
                        55
Ser Phe Arg Gln Ser Thr His Leu Thr Arg His Arg Arg Ile His Thr
                                        75
                    70
Gly Glu Lys Pro Tyr Lys Cys Pro Asp Cys Gly Lys Ser Phe Ser Gln
                                   90
Ser Ser Ser Leu lle Arg His Gln Arg Thr His
<210> 49
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 Tyr Arg Cys Glu Glu Cys Gly Lys Ala Phe Arg Trp Pro Ser Asn Leu
                  5
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 His Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu Asn Val His Lys
                             40
 Arg Thr His Thr Gly Glu Lys Pro Tyr Glu Cys Asp His Cys Gly Lys
                                             60
                         55
 Ala Phe Ser Val Ser Ser Asn Leu Asn Val His Arg Arg Ile His Thr
                     70
 Gly Glu Lys Pro Tyr Glu Cys Asp His Cys Gly Lys Ser Phe Ser Gln
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95
                85
Ser Ser His Leu Asn Val His Lys Arg Thr His
            100
<210> 50
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Thr Arg His Arg Arg IIe His Thr Gly Glu Lys Pro Tyr Lys Cys Met
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Glu Cys Gly Lys Ala Phe Asn Arg Arg Ser His Leu Thr Arg His Gln
Arg lie His Thr Gly Glu Lys Pro Tyr Glu Cys His Asp Cys Gly Lys
Ser Phe Arg Gln Ser Thr His Leu Thr Arg His Arg Arg Ile His Thr
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Gly Glu Lys Pro Tyr Glu Cys His Asp Cys Gly Lys Ser Phe Arg Gln
                                    90
Ser Thr His Leu Thr Arg His Arg Arg Ile His
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 Ala Leu Ala Arg His Lys Arg Thr His Thr Gly Glu Lys Pro Phe Gln
                                 25
 Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr
 His Thr Arg Thr His Thr Gly Glu Lys Pro Tyr Glu Cys Asp His Cys
                         55
 Gly Lys Ser Phe Ser Gln Ser Ser His Leu Asn Val His Lys Arg Thr
                                         75
 His Thr Gly Glu Lys Pro Tyr Glu Cys His Asp Cys Gly Lys Ser Phe
                                     90
                 85
 Arg Gln Ser Thr His Leu Thr Arg His Arg Arg Ile His
             100
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Thr Gln His Arg Arg lle His Thr Gly Glu Lys Pro Tyr Lys Cys Met
Glu Cys Gly Lys Ala Phe Asn Arg Arg Ser His Leu Thr Arg His Gln
                           40
Arg lie His Thr Gly Glu Lys Pro Tyr Glu Cys His Asp Cys Gly Lys
                        55
Ser Phe Arg Gln Ser Thr His Leu Thr Arg His Arg Arg Ile His Thr
Gly Glu Lys Pro Tyr Glu Cys His Asp Cys Gly Lys Ser Phe Arg Gln
                                    90
Ser Thr His Leu Thr Arg His Arg Arg IIe His
<210> 53
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 Tyr Glu Cys Asp His Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu
 Asn Val His Lys Arg Thr His Thr Gly Glu Lys Pro Tyr Glu Cys Asp
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 His Cys Gly Lys Ala Phe Ser Val Ser Ser Asn Leu Asn Val His Arg
 Arg IIe His Thr Gly Glu Lys Pro Phe Glu Cys Lys Asp Cys Gly Lys
                         55
 Ala Phe Ile GIn Lys Ser Asn Leu Ile Arg His GIn Arg Thr His Thr
                                         75
 Gly Glu Lys Pro Tyr Lys Cys Lys Gln Cys Gly Lys Ala Phe Gly Cys
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Asp Cys Gly Lys Ser Phe Arg Gln Ser Thr His Leu Thr Arg His Arg
                            40
Arg He His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Asp Cys Gly Lys
                        55
Ser Phe Ser Gln Ser Ser Leu lle Arg His Gln Arg Thr His Thr
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Gly Glu Lys Pro Phe Gln Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg
                                    90
Ser Asp His Leu Lys Thr His Thr Arg Thr His
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His Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu Asn Val His Lys
Arg Thr His Thr Gly Glu Lys Pro Tyr Glu Cys His Asp Cys Gly Lys
                         55
 Ser Phe Arg GIn Ser Thr His Leu Thr Arg His Arg Arg Ile His Thr
                                         75
 Gly Glu Lys Pro Phe Glu Cys Lys Asp Cys Gly Lys Ala Phe lle Gln
 Lys Ser Asn Leu IIe Arg His Gln Arg Thr His
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                                 10
Arg Arg His Gly Arg Thr His
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Tyr Gln Cys Asn Ile Cys Gly Lys Cys Phe Ser Cys Asn Ser Asn Leu
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His Arg His Gln Arg Thr His
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 Tyr Ser Cys Gly lle Cys Gly Lys Ser Phe Ser Asp Ser Ser Ala Lys
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 Arg Arg His Cys IIe Leu His
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<213> Homo sapiens

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Tyr Thr Cys Ser Asp Cys Gly Lys Ala Phe Arg Asp Lys Ser Cys Leu 1 5 10 15

Asn Arg His Arg Arg Thr His 20

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<213> Homo sapiens

<400> 64

Tyr Lys Cys Lys Glu Cys Gly Lys Ala Phe Asn His Ser Ser Asn Phe 1 5 10 15

Asn Lys His His Arg 11e His 20

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<400> 65

Phe Lys Cys Pro Val Cys Gly Lys Ala Phe Arg His Ser Ser Ser Leu
1 5 10 15

Val Arg His Gln Arg Thr His

20

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Tyr Arg Cys Lys Tyr Cys Asp Arg Ser Phe Ser IIe Ser Ser Asn Leu 1 5 10 15

GIn Arg His Val Arg Asn Ile His

20

<210> 67

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<213> Homo sapiens

<400> 67

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Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Ile Gly Ser Asn Leu
1 5
Asn Val His Arg Arg Ile His
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Tyr Gly Cys His Leu Cys Gly Lys Ala Phe Ser Lys Ser Ser Asn Leu
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               5
Arg Arg His Glu Met lle His
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Tyr Lys Cys Lys Glu Cys Gly Gln Ala Phe Arg Gln Arg Ala His Leu
                                                     15
 1 5.
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He Arg His His Lys Leu His
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 Tyr Lys Cys His Gln Cys Gly Lys Ala Phe Ile Gln Ser Phe Asn Leu
 1 5
 Arg Arg His Glu Arg Thr His
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 Phe Gln Cys Asn Gln Cys Gly Ala Ser Phe Thr Gln Lys Gly Asn Leu
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Thr Arg His Gln Lys lle His
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Tyr Ala Cys His Leu Cys Gly Lys Ala Phe Thr Gln Cys Ser His Leu
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Arg Arg His Glu Lys Thr His
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Tyr Ala Cys His Leu Cys Ala Lys Ala Phe Ile Gln Cys Ser His Leu
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 Arg Arg His Glu Lys Thr His
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 Tyr Val Cys Arg Glu Cys Gly Arg Gly Phe Arg Gln His Ser His Leu
                                   10
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 Val Arg His Lys Arg Thr His
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Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Arg Gln Ser Ser His Leu
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Thr Thr His Lys IIe IIe His
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Tyr Glu Cys Asp His Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu
                                   10
                                                       15
1 5
Asn Val His Lys Arg Thr His
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Tyr Met Cys Ser Glu Cys Gly Arg Gly Phe Ser Gln Lys Ser Asn Leu
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 Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Thr Gln Ser Ser Asn Leu
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                5
 1
 Thr Lys His Lys Lys Ile His
            20
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 <212> PRT
 <213> Homo sapiens
 <400> 81
 Phe Glu Cys Lys Asp Cys Gly Lys Ala Phe Ile Gln Lys Ser Asn Leu
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He Arg His Gln Arg Thr His
           20
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<212> PRT
<213> Homo sapiens
<400> 82
Tyr Val Cys Arg Glu Cys Arg Arg Gly Phe Ser Gln Lys Ser Asn Leu
                                    10
                5
lle Arg His Gln Arg Thr His
            20
<210> 83
<211> 23
<212> PRT
<213> Homo sapiens
<400> 83
Tyr Glu Cys Glu Lys Cys Gly Lys Ala Phe Asn Gln Ser Ser Asn Leu
                                                        15
                5
                                    10
Thr Arg His Lys Lys Ser His
            20
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<211> 23
<212> PRT
<213> Homo sapiens
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Tyr Glu Cys Asn Thr Cys Arg Lys Thr Phe Ser Gln Lys Ser Asn Leu
                 5
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lle Val His Gln Arg Thr His
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<213> Homo sapiens
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Tyr Val Cys Ser Lys Cys Gly Lys Ala Phe Thr Gln Ser Ser Asn Leu
                                    10
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Thr Val His Gln Lys lle His
            20
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 <211> 23
 <212> PRT
 <213> Homo sapiens
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Tyr Lys Cys Asp Glu Cys Gly Lys Asn Phe Thr Gln Ser Ser Asn Leu
               5
lle Val His Lys Arg Ile His
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<210> 87
<211> 23
<212> PRT
<213> Homo sapiens
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Tyr Glu Cys Asp Val Cys Gly Lys Thr Phe Thr Gln Lys Ser Asn Leu
1 5
Gly Val His Gln Arg Thr His
           20
<210> 88
<211> 23
<212> PRT
<213> Homo sapiens
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Tyr Glu Cys Val Gln Cys Gly Lys Gly Phe Thr Gln Ser Ser Asn Leu
                                   10
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lle Thr His Gln Arg Val His
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<213> Homo sapiens
Tyr Lys Cys Pro Asp Cys Gly Lys Ser Phe Ser Gln Ser Ser Leu
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                                    10
                 5
 lle Arg His Gln Arg Thr His
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 <213> Homo sapiens
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 Tyr Glu Cys Gln Asp Cys Gly Arg Ala Phe Asn Gln Asn Ser Ser Leu
                 5
 Gly Arg His Lys Arg Thr His
            20
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 <211> 23
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Tyr Glu Cys Asn Glu Cys Gly Lys Phe Phe Ser Gln Ser Ser Leu
1 5
lle Arg His Arg Arg Ser His
           20
<210> 92
<211> 23
<212> PRT
<213> Homo sapiens
Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Asn Gln Ser Ser Thr Leu
1
              5
                                  10
Thr Arg His Lys IIe Val His
           20
<210> 93
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Tyr Glu Cys Asn Glu Cys Gly Lys Ala Phe Ala Gln Asn Ser Thr Leu
1 5
Arg Val His Gln Arg Ile His
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<211> 23
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Tyr Glu Cys His Asp Cys Gly Lys Ser Phe Arg Gln Ser Thr His Leu
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                5
 Thr Gln His Arg Arg Ile His
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 <212> PRT
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 Tyr Glu Cys His Asp Cys Gly Lys Ser Phe Arg Gln Ser Thr His Leu
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                5
 Thr Arg His Arg Arg lle His
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<211> 22
<212> PRT
<213> Homo sapiens
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His Lys Cys Leu Glu Cys Gly Lys Cys Phe Ser Gln Asn Thr His Leu
                         10
1 5
Thr Arg His Gln Arg Thr
           20
<210> 97
<211> 25
<212> PRT
<213> Homo sapiens
<400> 97
Tyr Val Cys Asp Val Glu Gly Cys Thr Trp Lys Phe Ala Arg Ser Asp
                                 10
1 5
Glu Leu Asn Arg His Lys Lys Arg His
           20
<210> 98
<211> 25
<212> PRT
<213> Homo sapiens
<400> 98
Tyr His Cys Asp Trp Asp Gly Cys Gly Trp Lys Phe Ala Arg Ser Asp
                                                   15
1 5
Glu Leu Thr Arg His Tyr Arg Lys His
           20
<210> 99
<211> 25
<212> PRT
<213> Homo sapiens
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 Tyr Arg Cys Ser Trp Glu Gly Cys Glu Trp Arg Phe Ala Arg Ser Asp
 1 5
 Glu Leu Thr Arg His Phe Arg Lys His
           20
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 <211> 25
 <212> PRT
 <213> Homo sapiens
 <400> 100
 Phe Ser Cys Ser Trp Lys Gly Cys Glu Arg Arg Phe Ala Arg Ser Asp
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15
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1
Glu Leu Ser Arg His Arg Arg Thr His
           20
<210> 101
<211> 25
<212> PRT
<213> Homo sapiens
<400> 101
Phe Ala Cys Ser Trp Gln Asp Cys Asn Lys Lys Phe Ala Arg Ser Asp
                                  10
1 5
Glu Leu Ala Arg His Tyr Arg Thr His
           20
<210> 102
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<212> PRT
<213> Homo sapiens
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Tyr His Cys Asn Trp Asp Gly Cys Gly Trp Lys Phe Ala Arg Ser Asp
                    10
1 5
Glu Leu Thr Arg His Tyr Arg Lys His
           20
<210> 103
<211> 24
<212> PRT
<213> Homo sapiens
<400> 103
Phe Leu Cys Gln Tyr Cys Ala Gln Arg Phe Gly Arg Lys Asp His Leu
                                  10
Thr Arg His Met Lys Lys Ser His
<210> 104
<211> 23
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<213> Homo sapiens
<400> 104
Phe GIn Cys Lys Thr Cys GIn Arg Lys Phe Ser Arg Ser Asp His Leu
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 1
Lys Thr His Thr Arg Thr His
            20
 <210> 105
 <211> 23
 <212> PRT
 <213> Homo sapiens
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Phe Ala Cys Glu Val Cys Gly Val Arg Phe Thr Arg Asn Asp Lys Leu
1 5
Lys lie His Met Arg Lys His
           20
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<211> 25
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<213> Homo sapiens
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Tyr Val Cys Asp Val Glu Gly Cys Thr Trp Lys Phe Ala Arg Ser Asp
                                   10
               5
Lys Leu Asn Arg His Lys Lys Arg His
           20
<210> 107
<211> 23
<212> PRT
<213> Homo sapiens
<400> 107
Tyr Lys Cys Met Glu Cys Gly Lys Ala Phe Asn Arg Arg Ser His Leu
1
                5
Thr Arg His Gln Arg Ile His
           20
<210> 108
<211> 23
<212> PRT
<213> Homo sapiens
<400> 108
Tyr lle Cys Arg Lys Cys Gly Arg Gly Phe Ser Arg Lys Ser Asn Leu
                5
                                   10
 lle Arg His Gln Arg Thr His
            20
 <210> 109
 <211> 23
 <212> PRT
 <213> Homo sapiens
 <400> 109
 Tyr Leu Cys Ser Glu Cys Asp Lys Cys Phe Ser Arg Ser Thr Asn Leu
                5
                                    10
 1
 lle Arg His Arg Arg Thr His
            20
 <210> 110
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<211> 23
<212> PRT
<213> Homo sapiens
<400> 110
Tyr Glu Cys Lys Glu Cys Gly Lys Ala Phe Ser Ser Gly Ser Asn Phe
                                                      15
                                  10
1
               5
Thr Arg His Gln Arg IIe His
           20
<210> 111
<211> 23
<212> PRT
<213> Homo sapiens
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Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Val Ser Ser Asn Leu
                                 10
               5
1
Asn Val His Arg Arg Ile His
           20
<210> 112
<211> 23
<212> PRT
<213> Homo sapiens
<400> 112
Tyr Thr Cys Lys Gin Cys Giy Lys Ala Phe Ser Val Ser Ser Leu
                                   10
                5
 1
Arg Arg His Glu Thr Thr His
            20
<210> 113
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<213> Homo sapiens
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Tyr Glu Cys Asn Tyr Cys Gly Lys Thr Phe Ser Val Ser Ser Thr Leu
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 1 5
 lle Arg His Gln Arg Ile His
            20
 <210> 114
 <211> 23
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 <213> Homo sapiens
 Tyr Arg Cys Glu Glu Cys Gly Lys Ala Phe Arg Trp Pro Ser Asn Leu
 1
                 5
 Thr Arg His Lys Arg Ile His
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<210> 115
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<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Naturally occurring linker peptide

<221> VARIANT

<222> 3

<223> Xaa = Glu or Gln

<221> VARIANT

<222> 4

<223> Xaa = Lys or Arg

<221> VARIANT

<222> 6

<223> Xaa = Tyr or Phe

<400> 115

Thr Gly Xaa Xaa Pro Xaa

<210> 116

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

<221> VARIANT

<222> 1, 13

<223> Xaa = phenylalanine or tyrosine

<221> VARIANT

<222> 2, 4-8, 10-14, 16, 20, 23-27

<223> Xaa = any amino acid

<221> VARIANT

<222> 19

<223> Xaa = a hydrophobic residue

<400> 116

Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Ser Asn 1 5 10 15

Xaa Xaa Arg His Xaa Xaa Xaa Xaa His

20

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<211> 267
<212> DNA
<213> Artificial Sequence
<220>
<223> Synthetically generated oligonucleotide
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cgtataatgt gtggaattgt gagcggataa caatttcaca caggaaacag cgtccatggg
                                                                        120
                                                                        180
taagcctatc cctaaccctc tcctcggtct cgattctaca caagctatgg gtgctcctcc
aaaaaagaag agaaaggtag ctggatccac tagtaacggc cgccagtgtg ctggaattct
                                                                       240
                                                                       267
gcagatatcc atcacactgg cggccgc
<210> 118
<211> 25
<212> PRT
<213> Artificial Sequence
<220>
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Phe Met Cys Thr Trp Ser Tyr Cys Gly Lys Arg Phe Thr Asp Arg Ser
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                                     10
 1
Ala Leu Ala Arg His Lys Arg Thr His
<210> 119
<211> 23
<212> PRT
<213> Homo sapiens
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Tyr Lys Cys Lys Gin Cys Gly Lys Ala Phe Gly Cys Pro Ser Asn Leu
                 5
Arg Arg His Gly Arg Thr His
            20
 <210> 120
 <211> 23
 <212> PRT
 <213> Homo sapiens
 <400> 120
 Tyr Thr Cys Ser Asp Cys Gly Lys Ala Phe Arg Asp Lys Ser Cys Leu
                  5
                                     10
                                                          15
 Asn Arg His Arg Arg Thr His
             20
 <210> 121
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<211> 25
<212> PRT
<213> Artificial Sequence
<220>
<223> mutated sequence
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Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Asp Ser Ser
1 5
Asn Leu Thr Arg His Ile Arg Ile His
           20
<210> 122
<211> 23
<212> PRT
<213> Homo sapiens
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Phe Lys Cys Pro Val Cys Gly Lys Ala Phe Arg His Ser Ser Ser Leu
1 5
Val Arg His Gln Arg Thr His
           20
<210> 123
<211> 24
<212> PRT
<213> Homo sapiens
<400> 123
Tyr Arg Cys Lys Tyr Cys Asp Arg Ser Phe Ser Ile Ser Ser Asn Leu
                                   10
Gln Arg His Val Arg Asn lle His
            20
<210> 124
<211> 23
<212> PRT
<213> Homo sapiens
 Tyr Lys Cys His Gln Cys Gly Lys Ala Phe lle Gln Ser Phe Asn Leu
                                                      15
                5
 1
Arg Arg His Glu Arg Thr His
            20
 <210> 125
 <211> 23
 <212> PRT
 <213> Drosophila
 <400> 125
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Tyr Thr Cys Ser Tyr Cys Gly Lys Ser Phe Thr Gln Ser Asn Thr Leu
                5
1
Lys Gln His Thr Arg Ile His
           20
<210> 126
<211> 23
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<213> Homo sapiens
<400> 126
Tyr Glu Cys Asp His Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu
1
Asn Val His Lys Arg Thr His
            20
<210> 127
<211> 23
<212> PRT
<213> Homo sapiens
Tyr Met Cys Ser Glu Cys Gly Arg Gly Phe Ser Gln Lys Ser Asn Leu
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1
lle lle His Gln Arg Thr His
            20
<210> 128
<211> 23
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<213> Homo sapiens
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Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Thr Gln Ser Ser Asn Leu
 1 5
Thr Lys His Lys Lys Ile His
            20
 <210> 129
 <211> 23
 <212> PRT
 <213> Homo sapiens
 Phe Glu Cys Lys Asp Cys Gly Lys Ala Phe IIe Gln Lys Ser Asn Leu
                 5
 lle Arg His Gln Arg Thr His
            20
 <210> 130
 <211> 23
 <212> PRT
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<213> Homo sapiens
<400> 130
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1
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              5
Thr Val His Gln Lys lle His
           20
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Tyr Lys Cys Pro Asp Cys Gly Lys Ser Phe Ser Gln Ser Ser Leu
1 5
lle Arg His Gln Arg Thr His
           20
<210> 132
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Tyr Glu Cys His Asp Cys Gly Lys Ser Phe Arg Gln Ser Thr His Leu
1 5
                                  10
Thr Gln His Arg Arg Ile His
           20
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<211> 23
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Tyr Glu Cys His Asp Cys Gly Lys Ser Phe Arg Gln Ser Thr His Leu
 1 5
Thr Arg His Arg Arg Ile His
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<211> 23
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 <213> Homo sapiens
 <400> 134
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                5
 Lys Thr His Thr Arg Thr His
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<211> 25
<212> PRT
<213> Homo sapiens
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Tyr Val Cys Asp Val Glu Gly Cys Thr Trp Lys Phe Ala Arg Ser Asp
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Lys Leu Asn Arg His Lys Lys Arg His
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<210> 136
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Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met Arg Ser Asp Asn Leu
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                5
Thr Gln His Ile Lys Thr His
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Tyr Lys Cys Met Glu Cys Gly Lys Ala Phe Asn Arg Arg Ser His Leu
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Thr Arg His Gln Arg Ile His
            20
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 <400> 138
 Tyr lie Cys Arg Lys Cys Gly Arg Gly Phe Ser Arg Lys Ser Asn Leu
                 5
 lle Arg His Gln Arg Thr His
            20
 <210> 139
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 <213> Homo sapiens
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               5
Asn Val His Arg Arg lle His
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Tyr Thr Cys Lys Gin Cys Giy Lys Ala Phe Ser Val Ser Ser Leu
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               5
Arg Arg His Glu Thr Thr His
           20
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<213> Homo sapiens
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Tyr Glu Cys Asn Tyr Cys Gly Lys Thr Phe Ser Val Ser Ser Thr Leu
               5
lle Arg His Gln Arg Ile His
            20
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 <211> 12
 <212> DNA
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 <223> putative target sequence
 <400> 143
 daadaaaath ga
 <210> 144
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<211> 13

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<212> DNA
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<213> Artificial Sequence

<220>

<223> putative target sequence

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<223> n = a,t,c or g

<400> 144

gyagrahgan ggk

13

<210> 145

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> putative target sequence

<400> 145

hgaaathgag gt

.400. 445

12

<210> 146

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> putative target sequence

<400> 146

gragragggg ra

12

<210> 147

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> putative target sequence

<221> misc_feature

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<400> 147

grahganggg tc

12

<210> 148

<211> 12

<211> 12

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gragragggh ga
<210> 149
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<223> putative target sequence
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gavgaaaath ga
<210> 150
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<223> putative target sequence
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<400> 150
                                                                          12
ngggyagraa at
<210> 151
<211> 13
<212> DNA
<213> Artificial Sequence
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<223> putative target sequence
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 <222> 10
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 <400> 151
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 gaagrahgan ggk
 <210> 152
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<213> Artificial Sequence
<220>
<223> putative target sequence
<221> misc_feature
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<223> n = a,t,c or g
<400> 152
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gradaanggg to
<210> 153
<211> 12
<212> DNA
<213> Artificial Sequence
<220>
<223> binding sequence
<221> misc_feature
<222> 10
<223> n = a, t, c, or g
<400> 153
                                                                        12
gaagrahgan gg
<210> 154
<211> 189
<212> PRT
<213> Escherichia coli
Met Lys Arg Leu lie Val Gly lie Ser Gly Ala Ser Gly Ala lie Tyr
Gly Val Arg Leu Leu Gln Val Leu Arg Asp Val Thr Asp lle Glu Thr
His Leu Val Met Ser Gln Ala Ala Arg Gln Thr Leu Ser Leu Glu Thr
                             40
Asp Phe Ser Leu Arg Glu Val Gln Ala Leu Ala Asp Val Thr His Asp
                        55
Ala Arg Asp lle Ala Ala Ser lle Ser Ser Gly Ser Phe Gln Thr Leu
                   70
                                        75
Gly Met Val lie Leu Pro Cys Ser lie Lys Thr Leu Ser Gly lie Val
                                     90
His Ser Tyr Thr Asp Gly Leu Leu Thr Arg Ala Ala Asp Val Val Leu
                                105
 Lys Glu Arg Arg Pro Leu Val Leu Cys Val Arg Glu Thr Pro Leu His
                            120
                                                125
 Leu Gly His Leu Arg Leu Met Thr Gln Ala Ala Glu lle Gly Ala Val
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135

<220>

<223> primer

<400> 155

ctggaaagaa ccggaagaga tgctg 25

<210> 156 <211> 25 <212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 156

tgaaacgact cattgtaggc atcag 25

<210> 157 <211> 12 <212> DNA <213> Artificial Sequence

<220>

<223> target sequence

<221> misc_feature <222> 7

<223> n = a,t,c or g

<400> 157 gctgranggg ah